

## SEQUENCE LISTING

<110> Donoho, Gregory  
 Hilbun, Erin  
 Scoville, John  
 Turner, C. Alexander Jr.  
 Friedrich, Glenn  
 Abuin, Alejandro  
 Zambrowicz, Brian  
 Sands, Arthur T.

<120> Novel Human Enzymes and Polynucleotides  
 Encoding the Same

<130> LEX-0118-USA

<150> US 60/179,000  
<151> 2000-01-28

<160> 15

<170> FastSEQ for Windows Version 4.0

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<211> 831  
<212> DNA  
<213> Homo sapiens

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cctggaaa	ttacatttca	agaatctaaa	acattgagtc	cgggtgatag	tttctccaca	420
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Cys	Ala	Val	Phe	Gly	Pro	Asp	Gly	Thr	Leu	Leu	Ala	Lys	Tyr	Arg	Lys
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Ile	His	Leu	Phe	Asp	Ile	Asp	Val	Pro	Gly	Lys	Ile	Thr	Phe	Gln	Glu
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Tyr	Cys	Arg	Val	Gly	Leu	Gly	Ile	Cys	Tyr	Asp	Met	Arg	Phe	Ala	Glu
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Leu	Ala	Gln	Ile	Tyr	Ala	Gln	Arg	Gly	Cys	Gln	Leu	Leu	Val	Tyr	Pro
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Arg	Ser	Arg	Ala	Val	Asp	Asn	Gln	Val	Tyr	Val	Ala	Thr	Ala	Ser	Pro
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Ala	Arg	Asp	Asp	Lys	Ala	Ser	Tyr	Val	Ala	Trp	Gly	His	Ser	Thr	Val
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Val	Asn	Pro	Trp	Gly	Glu	Val	Leu	Ala	Lys	Ala	Gly	Thr	Glu	Ala	
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Ile	Val	Tyr	Ser	Asp	Ile	Asp	Leu	Lys	Lys	Leu	Ala	Glu	Ile	Arg	Gln
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35	40	45	
Ala Gln Arg Gly Cys Gln Leu Leu Val Tyr Pro Gly Ala Phe Asn Leu			
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Thr Thr Gly Pro Ala His Trp Glu Leu Leu Gln Arg Ser Arg Ala Val			
65	70	75	80
Asp Asn Gln Val Tyr Val Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys			
85	90	95	
Ala Ser Tyr Val Ala Trp Gly His Ser Thr Val Val Asn Pro Trp Gly			
100	105	110	
Glu Val Leu Ala Lys Ala Gly Thr Glu Ala Ile Val Tyr Ser Asp			
115	120	125	
Ile Asp Leu Lys Lys Leu Ala Glu Ile Arg Gln Gln Ile Pro Val Phe			
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<212> DNA

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gctgttata atcaggtgta tggccaca gcctcttcgt cccggatga caaagcctcc	180
tatgttgctt gggacacag caccgtggtg aacccttggg gggaggttct agccaaagct	240
ggcacagaag aagcaatcggtt atttcagac atagacctga agaagctggc tgaaaatacgc	300
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<210> 6

<211> 121

<212> PRT

<213> Homo sapiens

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Trp Glu Leu Leu Gln Arg Ser Arg Ala Val Asp Asn Gln Val Tyr Val			
35	40	45	
Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys Ala Ser Tyr Val Ala Trp			
50	55	60	
Gly His Ser Thr Val Val Asn Pro Trp Gly Glu Val Leu Ala Lys Ala			
65	70	75	80
Gly Thr Glu Glu Ala Ile Val Tyr Ser Asp Ile Asp Leu Lys Lys Leu			
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Leu Tyr Ala Val Glu Met Lys Lys Pro			
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 Leu Gly Ile Cys Tyr Asp Met Arg Phe Ala Glu Leu Ala Gln Ile Tyr  
 35 40 45  
 Ala Gln Arg Gly Cys Gln Leu Leu Val Tyr Pro Gly Ala Phe Asn Leu  
 50 55 60  
 Thr Thr Gly Pro Ala His Trp Glu Leu Leu Gln Arg Ser Arg Ala Val  
 65 70 75 80  
 Asp Asn Gln Val Tyr Val Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys  
 85 90 95  
 Ala Ser Tyr Val Ala Trp Gly His Ser Thr Val Val Asn Pro Trp Gly  
 100 105 110  
 Glu Val Leu Ala Lys Ala Gly Thr Glu Glu Ala Ile Val Tyr Ser Asp  
 115 120 125  
 Ile Asp Leu Lys Lys Leu Ala Glu Ile Arg Gln Gln Ile Pro Val Phe  
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 ggcacagaag aagcaatcgt gtattcagac atagacctga agaagctggc taaaatacgc 300  
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393

<210> 10

<211> 130

<212> PRT

<213> Homo sapiens

<400> 10

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Trp Glu Leu Leu Gln Arg Ser Arg Ala Val Asp Asn Gln Val Tyr Val  
35 40 45  
Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys Ala Ser Tyr Val Ala Trp  
50 55 60  
Gly His Ser Thr Val Val Asn Pro Trp Gly Glu Val Leu Ala Lys Ala  
65 70 75 80  
Gly Thr Glu Glu Ala Ile Val Tyr Ser Asp Ile Asp Leu Lys Lys Leu  
85 90 95  
Ala Glu Ile Arg Gln Gln Ile Pro Val Phe Arg Gln Lys Arg Asn Ile  
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Leu Lys  
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<211> 459

<212> DNA

<213> Homo sapiens

<400> 11

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<210> 12

<211> 152

<212> PRT

<213> Homo sapiens

<400> 12

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20 25 30  
Thr Gln Gly Ala Lys Ile Val Ser Leu Pro Glu Cys Phe Asn Ser Pro  
35 40 45  
Tyr Gly Ala Lys Tyr Phe Pro Glu Tyr Ala Glu Lys Ile Pro Gly Glu  
50 55 60

Ser Thr Gln Lys Leu Ser Glu Val Ala Lys Glu Cys Ser Ile Tyr Leu  
 65 70 75 80  
 Ile Gly Gly Ser Ile Pro Glu Glu Asp Ala Gly Lys Leu Tyr Asn Thr  
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 Cys Ala Val Phe Gly Pro Asp Gly Thr Leu Leu Ala Lys Tyr Arg Lys  
     100 105 110  
 Ile His Leu Phe Asp Ile Asp Val Pro Gly Lys Ile Thr Phe Gln Glu  
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 Met Tyr Gln Ile Ser Leu Pro Leu  
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<212> DNA

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<211> 285

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<213> Homo sapiens

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Thr Gln Gly Ala Lys Ile Val Ser Leu Pro Glu Cys Phe Asn Ser Pro						
35	40	45				
Tyr Gly Ala Lys Tyr Phe Pro Glu Tyr Ala Glu Lys Ile Pro Gly Glu						
50	55	60				
Ser Thr Gln Lys Leu Ser Glu Val Ala Lys Glu Cys Ser Ile Tyr Leu						
65	70	75	80			
Ile Gly Gly Ser Ile Pro Glu Glu Asp Ala Gly Lys Leu Tyr Asn Thr						
85	90	95				
Cys Ala Val Phe Gly Pro Asp Gly Thr Leu Leu Ala Lys Tyr Arg Lys						
100	105	110				
Ile His Leu Phe Asp Ile Asp Val Pro Gly Lys Ile Thr Phe Gln Glu						

115	120	125													
Ser	Lys	Thr	Leu	Ser	Pro	Gly	Asp	Ser	Phe	Ser	Thr	Phe	Asp	Thr	Pro
130															
Tyr	Cys	Arg	Val	Gly	Leu	Gly	Ile	Cys	Tyr	Asp	Met	Arg	Phe	Ala	Glu
145															
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165															
Gly	Ala	Phe	Asn	Leu	Thr	Thr	Gly	Pro	Ala	His	Trp	Glu	Leu	Leu	Gln
180															
Arg	Ser	Arg	Ala	Val	Asp	Asn	Gln	Val	Tyr	Val	Ala	Thr	Ala	Ser	Pro
195															
Ala	Arg	Asp	Asp	Lys	Ala	Ser	Tyr	Val	Ala	Trp	Gly	His	Ser	Thr	Val
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225															
Ile	Val	Tyr	Ser	Asp	Ile	Asp	Leu	Lys	Lys	Leu	Ala	Glu	Ile	Arg	Gln
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